



# Machine Technology CNC Programmer Diploma Credits

Program Area: Integrated Manufacturing Machine Tool Fall 2020

**\*\*\*REMEMBER TO REGISTER EARLY\*\*\***

### Program Description

The CNC Machine Programmer program is designed to prepare the student for employment as a CNC Machinist/Programmer. Skill development includes performing basic floor programming to produce a part to specifications setup and operation of CNC machines instruction in inspection and statistical process control and program parts designed using a CAD/CAM computer system.

### Program Outcomes

- Perform a basic setup and operate different types of manual metal working machines
- Write basic programs and operate different types of CNC metal working machines
- Perform mathematical calculation of shop problems
- Use basic CAD and CAM computer programs to generate CNC programs to be used on machine tools
- Interpret all basic drawings and blueprints
- Build basic machine parts and tools

### Prerequisite Requirements

Successful entry into this program requires a specific level of skill in the areas of English mathematics and reading. Program entry will depend in part on meeting the prerequisites listed below:

### Enrollment

- A score of 250 or higher on the reading portion of the Accuplacer or

### Required Courses

Number	Name	Credits	Prereq
CADE 1468	SolidWorks I	3	
INMG 1400	Introduction to Manufacturing Technology	4	
INMG 1410	Mechanical Blueprint Reading	3	
INMG 1420	Design Application Concepts I	3	
WLDG 1560	Gas Metal Arc Welding I	3	
INMG 1412	Advanced Mechanical Blueprint Reading	3	
INMG 1422	Design Application Concepts II	3	
MTCC 1432	Quality Methods	2	
MTCC 1505	Surface Grinder	2	
MTCC 1620	CNC Basic Programming	2	
MTCC 2500	CNC Mill Conversational	2	
MTCC 2504	CAD CAM	3	
MTCC 1600	Engineering Materials	1	
MTCC 1603	Turning	2	
MTCC 1604	Milling	2	
MTCC 2502	CNC Turning	3	
MTCC 2506	Advanced CAM	2	
MTCC 2540	CNC Machine Center 3 Axis	3	
MTCC 2564	CNC Horizontal 4 Axis	3	
COMM 1601	Interviewing Procedure and Practice	1	
MTCC 1520	Cylindrical Grinding	1	
MTCC 1530	Water Jet Cutting Processes	2	
MTCC 2560	Advanced CNC Mill 4 Axis	3	
MTCC 2562	CNC Mill/Turn Live Tooling	3	
MTCC 2570	Wire EDM	2	
MTCC 2572	Swiss Automatic	3	

### Total Credits

Prerequisites



## Machine Technology CNC Programmer Diploma **credits**

Program Area: Integrated Manufacturing Machine Tool Fall 2020

**\*\*\*REMEMBER TO REGISTER EARLY\*\*\***

---

For interpretation of test results and selection of appropriate coursework or general information about the program, admissions, financial aid, and getting started at LSC, contact the [professional adviser team](mailto:professionaladviser@lsc.edu) at [pat@lsc.edu](mailto:pat@lsc.edu) or 218.733.7601.

---

For more information about the Machine Technology CNC Programmer Diploma including course descriptions, course prerequisites, the program report, and potential career opportunities, see the [program website](https://degrees.lsc.edu/cnc-programmer/) <https://degrees.lsc.edu/cnc-programmer/>

**or**

Contact Faculty Advisor [Max Udovich](mailto:max.udovich@lsc.edu) [max.udovich@lsc.edu](mailto:max.udovich@lsc.edu) or 218.733.7732